

MIC® Unitized Tight-Buffered, Interlocking Armored Cable, Plenum

144 F, 50 µm multimode (OM3)

CORNING

Corning Cable Systems MIC® Unitized Interlocking Armored Plenum Cables are standard MIC Unitized Cables designed for use in plenum, riser and general purpose environments for intrabuilding backbone and horizontal installations. These multifiber cables use individually jacketed 900 µm TBII® Buffered Fibers enabling easy, consistent stripping and facilitating termination. The fibers are grouped into six or 12-fiber jacketed subunits, for quick and easy identification. These subunits surround a dielectric central member and are protected by a flexible, spirally wrapped, aluminum interlocking armor that offers easy, one-step installation and over seven times the crush protection of unarmored cables.

With a flame-retardant outer jacket, this cable is particularly useful for heavy traffic or more challenging mechanical exposure conditions and applications requiring extra rugged cables for routing inside buildings, through riser shafts, to telecommunication rooms and to workstations.

This cable is available in 12 different jacket colors - blue, orange, green, brown, slate, white, red, black, yellow, purple, rose and aqua. The colored jacket allows for easy visual identification of the cables. The standard jacket color will be determined by the dominant fiber type in the cable and will use the standard part numbers shown here. Contact Customer Care at 1-800-743-2675 to order other color options.

Features and Benefits

Flexible, interlocking armor design

Seven times crush protection compared to unarmored cables

TBII® Buffered Fibers

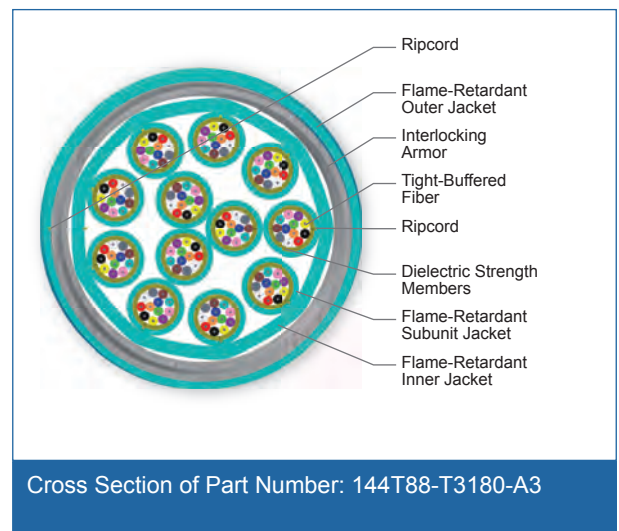
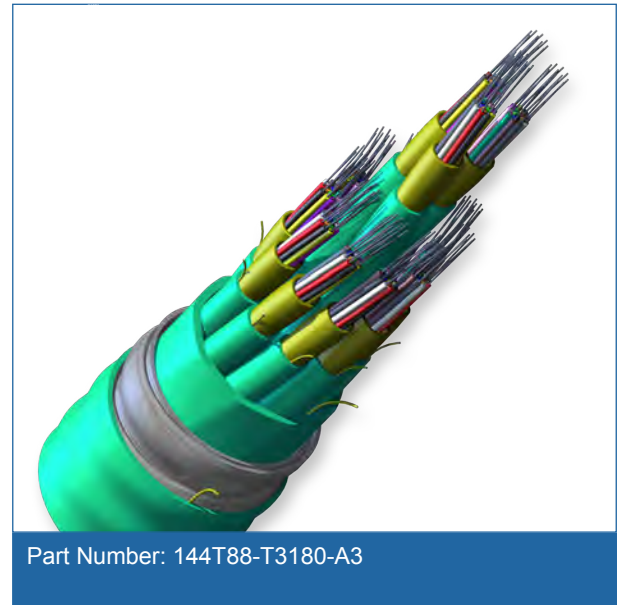
Easy, consistent stripping

6- or 12-fiber jacketed subunits

Quick and easy identification

Flame-retardant jacket

Rugged and durable



Standards

Approval and Listings

National Electrical Code®
(NEC®) OFCP, CSA FT-6,
ICEA S-83-596

Flame Resistance

UL-1666 (for riser and general building applications)

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Specifications

General Specifications

Environment	Indoor
Application	General Purpose Horizontal, Vertical Riser, Plenum
Cable Type	Tight-Buffered
Product Type	Interlocking armor
Flame Rating	Plenum (OFCP)
Fiber Category	50 µm MM (OM3)

Temperature Range

Storage	-40 °C to 70 °C (-40 °F to 158 °F)
Installation	0 °C to 60 °C (32 °F to 140 °F)
Operation	0 °C to 70 °C (32 °F to 158 °F)

Cable Design

Fiber Count	144
Subunit Central Element	Dielectric
Fibers per Subunit	12
Tight buffer color subunit	Blue, Orange, Green
Tensile Strength Elements and/or Armoring - Layer 1	Dielectric strength members
Tight Buffer Color Subunit, Layer 2	Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Tensile Strength Elements and/or Armoring - Layer 2	Dielectric strength members
Subunit Color	Aqua
Number of Subunits Layer 1	3
Number of Subunits Layer 2	9
Number of Ripcords	14
Inner Jacket Material	Flame-retardant
Tensile Strength Elements and/or Armoring - Layer 3	Interlocking armor
Outer Jacket Material	Flame-retardant
Outer Jacket Color	Aqua

Mechanical Characteristics Cable

Max. Tensile Strengths, Short-Term	660 N (150 lbf)
Max. Tensile Strengths, Long-Term	200 N (45 lbf)
Nominal Inner Cable Diameter	23.7 mm (0.92 in)

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Mechanical Characteristics Cable

Nominal Outer Diameter	32.5 mm (1.28 in)
Weight	861 kg/km (579 lb/1000 ft)
Min. Bend Radius Installation	488 mm (19.2 in)
Min. Bend Radius Operation	325 mm (12.8 in)

Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2002/95/EG
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Fiber Specifications

Optical Characteristics (cabled)

Fiber Type	Multimode
Fiber Core Diameter	50 μ m
Fiber Category	OM3
Fiber Code	T
Performance Option Code	80
Wavelengths	850 nm / 1300 nm
Maximum Attenuation	2.8 dB/km / 1 dB/km
Min. Overfilled Launch (OFL) Bandwidth	1500 MHz*km / 500 MHz*km
Minimum Effective Modal Bandwidth (EMB)	2000 MHz*km / -
Serial 1 Gigabit Ethernet	1000 m / 600 m
Serial 10 Gigabit Ethernet	300 m / -
Induced Attenuation @ 7.5 mm Radius	< 30 dB up to 80 dB

* Meets 0.75 ns optical skew when used in all Corning Cable Systems Plug & Play™/Pretium EDGE® Systems Solutions.

Notes: 1) 50 μ m multimode fiber macrobend loss ≤ 0.2 dB at 850 nm for two turns around 7.5 mm radius mandrel.
2) Improved attenuation and bandwidth options available.
3) Bend-insensitive single-mode fibers available on request.
4) Contact a Corning Cable Systems Customer Care Representative for additional information.

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Ordering Information

Part Number	144T88-T3180-A3
Product Description	MIC [®] Unitized Tight-Buffered, Interlocking Armored Cable, Plenum, 144 F, 50 μ m multimode (OM3)



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